

1/22/06 Rec'd PCT/PTO 11 JUL 2005  
SEQUENCE LISTING

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<120> Dimerized peptides

<130> 664263

<140>

<141> 2004-01-15

<150> JP 2003-007122

<151> 2003-01-15

<160> 71

<170> PatentIn Ver. 2.1

<210> 1

<211> 449

<212> PRT

<213> Homo sapiens

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Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro  
1 5 10 15

Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala  
20 25 30

Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr  
35 40 45

Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro  
50 55 60

Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly  
65 70 75 80

Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe  
85 90 95

Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
100 105 110

Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe

2/22

115	120	125
Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile		
130	135	140
Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr		
145	150	155
		160
Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe		
	165	170
		175
Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln		
	180	185
		190
Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser		
	195	200
		205
Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp		
	210	215
		220
Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln		
	225	230
		235
		240
Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser		
	245	250
		255
Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu		
	260	265
		270
Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile		
	275	280
		285
His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro		
	290	295
		300
Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys		
	305	310
		315
		320
Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys		
	325	330
		335
Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro		
	340	345
		350
Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp		
	355	360
		365
Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln		

3/22

370

375

380

Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr  
385 390 395 400

His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys  
405 410 415

Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val  
420 425 430

Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala  
435 440 445

Leu

&lt;210&gt; 2

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 2

Cys Leu Glu Ser Gln Pro Ala Ile Arg  
1 5

&lt;210&gt; 3

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 3

Gly Ala Glu Pro His Glu Glu Gln Cys  
1 5

&lt;210&gt; 4

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

4/22

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 4

Gln Cys Asp Phe Lys Asp Cys Glu Arg

1

5

&lt;210&gt; 5

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 5

Thr Ser Glu Lys Pro Phe Ser Cys Arg

1

5

&lt;210&gt; 6

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 6

Lys Thr Cys Gln Arg Lys Phe Ser Arg

1

5

&lt;210&gt; 7

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 7

Cys Ala Tyr Pro Gly Cys Asn Lys Arg

1

5

&lt;210&gt; 8

&lt;211&gt; 9

5/22

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 8

Gln Leu Glu Cys Met Thr Trp Asn Gln

1 5

&lt;210&gt; 9

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 9

Thr Ser Glu Lys Arg Pro Phe Met Cys

1 5

&lt;210&gt; 10

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 10

Ile Leu Cys Gly Ala Gln Tyr Arg Ile

1 5

&lt;210&gt; 11

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 11

Cys Met Thr Trp Asn Gln Met Asn Leu

1 5

6/22

&lt;210&gt; 12

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 12

Tyr Gln Met Thr Ser Gln Leu Glu Cys

1

5

&lt;210&gt; 13

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 13

Lys Thr Ser Glu Lys Pro Phe Ser Cys

1

5

&lt;210&gt; 14

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 14

Gln Met Thr Ser Gln Leu Glu Cys Met

1

5

&lt;210&gt; 15

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

7/22

&lt;400&gt; 15

Glu Gln Cys Leu Ser Ala Phe Thr Val

1

5

&lt;210&gt; 16

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 16

Ser Val Pro Pro Pro Val Tyr Gly Cys

1

5

&lt;210&gt; 17

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 17

Ala Glu Pro His Glu Glu Gln Cys Leu

1

5

&lt;210&gt; 18

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 18

Asp Phe Lys Asp Cys Glu Arg Arg Phe

1

5

&lt;210&gt; 19

&lt;211&gt; 9

&lt;212&gt; PRT

8/22

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 19

Ala Tyr Pro Gly Cys Asn Lys Arg Tyr

1

5

&lt;210&gt; 20

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 20

Asn Ala Pro Tyr Leu Pro Ser Cys Leu

1

5

&lt;210&gt; 21

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 21

Gly Cys Asn Lys Arg Tyr Phe Lys Leu

1

5

&lt;210&gt; 22

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 22

Arg Trp Pro Ser Cys Gln Lys Lys Phe

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9/22

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<213> Artificial Sequence

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Cys Leu Ser Ala Phe Thr Val His Phe  
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<212> PRT  
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Phe Gln Cys Lys Thr Cys Gln Arg Lys  
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<210> 26  
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<212> PRT  
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

10/22

&lt;400&gt; 26

Phe Thr Gly Thr Ala Gly Ala Cys Arg

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&lt;210&gt; 27

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 27

Met Cys Ala Tyr Pro Gly Cys Asn Lys

1

5

&lt;210&gt; 28

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 28

Gly Val Lys Pro Phe Gln Cys Lys Thr

1

5

&lt;210&gt; 29

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 29

Ser Cys Arg Trp Pro Ser Cys Gln Lys

1

5

&lt;210&gt; 30

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

11/22

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 30

Pro Ile Leu Cys Gly Ala Gln Tyr Arg

1

5

&lt;210&gt; 31

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 31

Lys Asp Cys Glu Arg Arg Phe Ser Arg

1

5

&lt;210&gt; 32

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 32

Pro Ser Cys Gln Lys Lys Phe Ala Arg

1

5

&lt;210&gt; 33

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 33

Gly Cys Asn Lys Arg Tyr Phe Lys Leu

1

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12/22

&lt;210&gt; 34

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 34

Ser Glu Lys Pro Phe Ser Cys Arg Trp

1

5

&lt;210&gt; 35

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 35

Ser Glu Lys Arg Pro Phe Met Cys Ala

1

5

&lt;210&gt; 36

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 36

Leu Glu Cys Met Thr Trp Asn Gln Met

1

5

&lt;210&gt; 37

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 37

13/22

Gly Glu Lys Pro Tyr Gln Cys Asp Phe  
1 5

&lt;210&gt; 38

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 38

Glu Glu Gln Cys Leu Ser Ala Phe Thr  
1 5

&lt;210&gt; 39

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 39

Gly Cys Ala Leu Pro Val Ser Gly Ala  
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&lt;210&gt; 40

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 40

Thr Asp Ser Cys Thr Gly Ser Gln Ala  
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&lt;210&gt; 41

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

14/22

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 41

Cys Ala Leu Pro Val Ser Gly Ala Ala

1

5

&lt;210&gt; 42

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 42

His Glu Glu Gln Cys Leu Ser Ala Phe

1

5

&lt;210&gt; 43

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 43

Cys Thr Gly Ser Gln Ala Leu Leu Leu

1

5

&lt;210&gt; 44

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 44

Cys Tyr Thr Trp Asn Gln Met Asn Leu

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&lt;210&gt; 45

15/22

<211> 9  
<212> PRT  
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

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Ser Cys Thr Gly Ser Gln Ala Leu Leu  
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<210> 46  
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<212> PRT  
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<223> Description of Artificial Sequence: Synthetic Peptide

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Leu Gly Gly Gly Gly Cys Ala Leu  
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Gly Gly Gly Gly Cys Ala Leu Pro Val  
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<210> 48  
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<212> PRT  
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<223> Description of Artificial Sequence: Synthetic Peptide

<400> 48  
Ser Leu Gly Gly Gly Gly Cys Ala

16/22

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&lt;210&gt; 49

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 49

Gln Cys Lys Thr Cys Gln Arg Lys Phe

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5

&lt;210&gt; 50

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 50

Thr Gly Thr Ala Gly Ala Cys Arg Tyr

1

5

&lt;210&gt; 51

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 51

Ser Cys Gln Lys Lys Phe Ala Arg Ser

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5

&lt;210&gt; 52

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;



17/22

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 52

Thr Cys Gln Arg Lys Phe Ser Arg Ser  
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<210> 53

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

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Ser Cys Leu Glu Ser Gln Pro Ala Ile  
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<210> 54

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

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His Thr Gly Glu Lys Pro Tyr Gln Cys  
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<210> 55

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

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Cys Arg Trp Pro Ser Cys Gln Lys Lys  
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<210> 56

<211> 9

18/22

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 56

Cys Arg Tyr Gly Pro Phe Gly Pro Pro

1

5

&lt;210&gt; 57

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 57

Thr Pro Ile Leu Cys Gly Ala Gln Tyr

1

5

&lt;210&gt; 58

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 58

Tyr Pro Gly Cys Asn Lys Arg Tyr Phe

1

5

&lt;210&gt; 59

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 59

Glu Pro His Glu Glu Gln Cys Leu Ser

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19/22

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Lys Pro Phe Ser Cys Arg Trp Pro Ser  
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<210> 61  
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Cys His Thr Pro Thr Asp Ser Cys Thr  
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<210> 62  
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<223> Description of Artificial Sequence: Synthetic Peptide

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<210> 63  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Peptide

20/22

&lt;400&gt; 63

Ala Gly Ala Cys Arg Tyr Gly Pro Phe  
1 5

&lt;210&gt; 64

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 64

Trp Pro Ser Cys Gln Lys Lys Phe Ala  
1 5

&lt;210&gt; 65

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 65

Thr Pro Thr Asp Ser Cys Thr Gly Ser  
1 5

&lt;210&gt; 66

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 66

Cys Ala Leu Pro Val Ser Gly Ala Ala  
1 5

&lt;210&gt; 67

&lt;211&gt; 9

&lt;212&gt; PRT

21/22

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 67

Lys Pro Tyr Gln Cys Asp Phe Lys Asp

1

5

&lt;210&gt; 68

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 68

Thr Ser Gln Leu Glu Cys Met Thr Trp

1

5

&lt;210&gt; 69

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 69

His Thr Thr Pro Ile Leu Cys Gly Ala

1

5

&lt;210&gt; 70

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Synthetic Peptide

&lt;400&gt; 70

Gln Phe Thr Gly Thr Ala Gly Ala Cys

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22/22

<210> 71  
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<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 71  
Glu Lys Arg Pro Phe Met Cys Ala Tyr  
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<210> 72  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic Peptide  
Xaa at position 2 means Tyr, Phe, Met or Trp, and Xaa at position  
9 means Phe, Leu, Ile, Trp or Met.

<400> 72  
Cys Xaa Thr Trp Asn Gln Met Asn Xaa  
1 5